

Material Safety Data Sheet

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1. Product and Company Identification

Trade Name :	SiO ₂ 、SiO ₂ Rings (Silicon Oxide)
Manufacturer :	SUNDA OPTICAL MATERIAL CO., LTD.
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Fax :	+886-6-2892267
Add. :	No. 2-2, Ln. 11, Sec. 3, Dongmen Rd., East Dist., Tainan City 701, Taiwan (R.O.C.)
CAS NO :	12065-65-5

2. Hazard Identification

Hazard statements: Causes serious eye irritation, may cause respiratory irritation
Serious Eye damage/ Eye irritation: Category 2
Specific target organ toxicity(single exposure): Category 3
Specific target organ toxicity – Repeated exposure

Signal :



3. Composition/Information on Ingredients

元素雜質分析 (主含量 SiO ₂ :>99.99%)			
分析元素	結果不大於 (ppm)	分析元素	結果不大於 (ppm)
Al	20	Fe	0.4
K	1	Li	1.4
Cu	0.01	Na	1.5
B	0.2	Ca	0.5

該產品為無色透明顆粒，無毒、無害、無爆的安全產品。

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4. First-aid Measures

Inhalation : Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.

Skin Contact : Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion : Rinse mouth, call a doctor if you feel unwell.

Most important symptoms and effects : Breathing difficulties, cough, varying degrees of pulmonary injury, irritation.

5. Fire-fighting Measures

Suitable extinguishing media : Co-ordinate fire-fighting measures to the fire surroundings.

Protecting equipment : Water self contained breathing apparatus for fire fighting if necessary.

Precautions for firefighters : Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions : Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental Precautions : Keep away from drains, surface and ground water.

Methods for Containment and Clean Up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid breathing dust. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

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Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use type N95 or type P1 respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN.

Protection of hands: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Use safety glasses.

Body protection: Use protective clothing.

9. Physical and Chemical Properties

Physical state : Solid	Density : 2.20 g/cm ³
Appearance : : White	Odor : Odorless
Melting point/range : 1600-2200°C	Boiling point/range : 2230 °C
Solubility : Hard to solute in water.	Flash point : N/A
Explosive limits : N/A	

10. Stability and Reactivity

Reactive hazard: This material is not reactive under normal ambient conditions.

Stability: Stable under normal conditions.

Conditions to avoid: There are no specific conditions known which have to be avoided.

11. Toxicological Information

Acute toxicity: Shall not be classified as acutely toxic.

Irritation: Irritating to eyes.

12. Ecological Information

Eco-toxicity effects : N/A

13. Disposal Considerations

Waste disposal methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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14. Transport Information

Transport Information : Not regulated

15. Regulations

Applicable regulations
1. Hazard Communication Standard: Labels and Pictograms
2. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
3. Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations
4. Road traffic safety

16. Other Information

References	1. GHS Web.: http://www.ghs.url.tw/train/train6th.pdf 2. HSDB DBMS 3. OHS MSDS DBMS 4. ChemWatch DBMS
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